

DOUGLAS A. DUCEY
Governor



THOMAS BUSCHATZKE
Director

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JUN 01 2018

OFFICE OF
ASSURED WATER SUPPLY

ARIZONA DEPARTMENT OF WATER RESOURCES

1110 W Washington St, Ste. 310
PHOENIX, ARIZONA 85007
(602) 771-8500

DESIGNATION OF ADEQUATE WATER SUPPLY
DESIGNATED WATER PROVIDER 2017 ANNUAL REPORT

WATER PROVIDER:

41-401435.0001	Empirita Water Company (CWS 91-000826.0000)
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Address: 2850 E. SKYLINE STE 100 City, State, Zip code: TUCSON AZ. 85718

Owner name: JAMES VERMILYEA Contact name: JAMES VERMILYEA

Title: PRESIDENT Phone: 520-490-1218 Email address: JVERMILYEA@EARTHLINK.NET

PART I- TOTAL WATER WITHDRAWN, DIVERTED OR RECEIVED IN 2017, as reported by you on the Community Water System (CWS) report (if you file CWS): _____ acre-feet

PART II - COMMITTED WATER DEMAND

Committed demand is the estimated future water demand at build out of all **recorded** lots or parcels that are **not yet served** water within your service area. Estimate the future annual demand in acre-feet for undeveloped, recorded lots or parcels that were located in your service area as of December 31, 2017. Report demand for residential lots and non-residential parcels separately as indicated below:

		Annual demand per residential lot (acre-feet/year)	Total annual demand (acre-feet/year)
Number of recorded residential lots	Number: <u>41</u>		
Number or acres of recorded non-residential parcels	Number: _____ or Acres: _____		
		Grand total (acre-feet)	

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Explain how the non-residential demand was calculated. Use a separate sheet if necessary.

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PART III - PROJECTED ANNUAL WATER DEMAND

Project the annual water demand in acre-feet for each year indicated. Calculate the increase in demand for each year from the previous year. The projected demand in most cases will be greater than the total water use for the current year. Current year demand should equal the total water withdrawn, diverted and received for delivery in your service area for 2017 as reported in Part I. Include all water sources used. To calculate GPCD (gallons per capita per day) divide the total demand in gallons per day by the population in your service area.

Year	Projected population	GPCD	Total Demand (acre-feet/year)	Increase from previous year (acre-feet/year)
2017	82	116.2	10.4	-
2018	102		13.2	2.80
2019	144		18.7	5.50
2020	210		26.6	7.90
2021	310		40.2	13.60
2022	420		54.5	14.30
2023	530		68.8	14.30
2024	630		81.8	13.00
2025	750		97.4	15.60
2026	890		115.6	18.00
2027	998		129.7	14.10

Explain how the population projection was made. Use a separate sheet if necessary.

PROJECTIONS WERE MADE BY ESTIMATING THE AMOUNT OF NEW HOMES ADDED EACH YEAR OVER THE 10 YRS. THE AVERAGE HOUSEHOLD IS 2 PEOPLE PER HOME.

PART IV - WATER QUALITY

- A. Is the water provider currently in compliance with the Arizona Department of Environmental Quality's state water quality standards and reporting requirements? ☒ yes ☐ no

If "no", please provide an explanation on a separate sheet.

- B. Have any new Superfund or WQARF sites been identified within the water provider's service area or have existing contaminant plumes migrated to be within one mile of any service area wells? ☐ yes ☐ no

If "yes", please provide an explanation on a separate sheet.

WATER IS TESTED ONCE A MONTH BY TURNER LABORATORIES AND RESULTS REPORTED TO THE STATE.
MAP SAMPLES ARE ALSO RELAYED TO THE STATE ANNUALLY.

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PART V - CERTIFICATION AND SIGNATURE

I hereby certify, under penalty of perjury, that the information contained in this report is, to the best of my knowledge and belief, true, correct and complete.



Authorized Signature

5/25/18

Date

JAMES L. VERMILYEA

Printed Name

PRESIDENT

Title

Mail, email, or hand-deliver this report by June 1, 2018 to:

Arizona Department of Water Resources
Office of Assured and Adequate Water Supply
1110 W Washington St, Ste. 310
Phoenix, Arizona 85007
assuredadequate@azwater.gov

(602)771-8599, voice (602) 771-8689, fax